



Simon Stijnen

Software Engineer & AI

About Me


Software Engineering student at VIVES University of Applied Sciences. I build scalable, maintainable software that performs well under heavy load. I quickly learn and apply new technologies in practice, with a focus on AI and efficient software development.

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Skills

- Project Management
- Python
- Javascript/Typescript
- Docker
- C, C++, C#

Languages

- Dutch (Native)
- English (Professional Working)
- French (Basic)

... Other

- Driver license B
- Ice hockey

Education

- **Professional Bachelor Electronics-ICT** 2023 – 2026
Belgium – VIVES University of Applied Sciences

Gained experience with (international) project management and working in Scrum teams. Learned to structure software projects with a focus on maintainability and collaboration, using tools like Git, code reviews, and sprints.

- **Graduate Programming** Sep. – Dec. 2023
Belgium – HOWEST – Evening school

Gained a strong core in Git and object-oriented programming C#.

- **TSO Internet of Things** 2021 – 2023
Belgium – KTA Brugge

Introduced to programming and built a solid foundation in software development through hands-on work with wireless communication, networking, and microcontrollers. Gained practical experience with embedded systems and low-level programming.

Experience

- **Student Job Test Engineer** Apr. 2024
Advionics nv [Links: !\[\]\(c64430f1e66d19baf07a1d1b71e01e82_img.jpg\)](#)

Built a sensor monitoring project using real-time heatmap data analysis. Using MLX90640 heat sensors. This system was then integrated into an existing program.
Deployed in production, providing continuous thermal monitoring for detection of irregularities.

- **Intern Test Engineer** Apr. 2022
Advionics nv

Developed an automated camera system, at 17 y/o, for quality control in shipping. Capturing product images before packaging, doing image processing and generates PDF reports as proof of undamaged delivery.
Deployed in production, improving logistics efficiency and traceability.

Featured Projects

- **Pop-a-loon** Feb. – Jul. 2024
Browser extension – 200+ active users [Links: !\[\]\(196c08192bc1688b986c9d181e52f15b_img.jpg\)](#)

Developed a full-stack browser extension. Facing the challenges of deploying code in production and managing large database tables with extensive rows. Gained practical experience in handling scalability and performance issues.

- **ESP32 Bluetooth Device Localization** Sep. 2022 – Jul. 2023
Final work – KTA Brugge

For my final project, I developed a system to localize devices within a space by using the Bluetooth signal strength from ESP32 modules. This system works similarly to satellite positioning and Google Maps, but for indoor environments. The project focused on wireless communication and signal analysis for accurate location tracking.

Achievements

Most deserving student 2023

Rotary Club – Brugge

Recognized as the most deserving student at secondary school graduation, based on dedication, eagerness to learn, and social involvement. Awarded by Rotary International as a token of appreciation for academic and personal growth.